PA	TF.	NT

In re application of:	Chau, Vincent	·	
Application No.:	10/681690	Group No.:	1652
Filed:	October 8, 2003	Examiner:	Fronda, Christian, L.
For:	NEDD-8 CONJUGATING ENZYME 1 AND METHODS OF USE		

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

DECLARATION UNDER 37 C.F.R. § 1.131

Sir:

- I, Tatiana Gladysheva, hereby declare and state:
- 1. I am a biochemist who was performing studies at Proscript, Inc. (which later became part of Millennium Pharmaceuticals, Inc.) under the direction of the inventor of the subject matter described and claimed in the above-identified application.
- 2. I performed the PCR and sequencing studies to identify and characterize the NEDD-8 conjugating enzyme 1 in the United States before August 1, 1998.
- 3. Evidence is provided by the following:
 - a) Prior to August 1, 1998, I had completed the sequencing of the overlapping clones which led to the full length NEDD-8 conjugating enzyme 1 (NCE1). Exhibit A is a copy of my notebook pages evidencing studies wherein I performed PCR of cDNA from a human leukocyte library and sequenced the products. The sequences detailed on pages 126-127 are sequences of the PCR products which cover the reverse complement of NCE1. In order, they cover the nucleotides

CERTIFICATION UNDER 37 C.F.R. SECTIONS 1.8(a) and 1.10*

I hereby certify that, on the date shown below, this correspondence is being:

MAILING

Ø	deposited with the United States Postal Service in an er 1450, Alexandria, VA 22313-1450. 37 C.F.R. SECTION 1.8(a)	nvelope ade	dressed to the Commissioner for Patents, P.O. Box 37 C.F.R. SECTION 1.10*
☑	with sufficient postage as first class mail.		as "Express Mail Post Office to Addressee" Mailing Label No.
	TRANSM transmitted by facsimile to the Patent and Trademark O	Office. Signa	ture

(type or print name of person certifying)

^{*}WARNING: Each paper or fee filed by "Express Mail" must have the number of the "Express Mail" mailing label placed thereon prior to mailing. 37 C.F.R. section 1.10(b). "Since the filing of correspondence under section 1.10 without the Express Mail mailing label thereon is an oversight that can be avoided by the exercise of reasonable care, requests for waiver of this requirement will not be granted on petition." Notice of Oct. 24, 1996, 60 Fed. Reg. 56,439, at 56,442.

363-108, 445-232, 116-1 (with some 5' untranslated nucleotides), 198-111, 553-360 and 553-500 (with some 3' untranslated nucleotides). The match of these sequences to the NCE1 nucleotide sequence can be followed by comparing the sequences on my notebook pages to the lower nucleic acid sequence line of Figure 2 of the application. The notebook pages bear the dates on which I performed the studies and the date on which my notebook was witnessed (by ESL). In the original notebook, these dates are prior to August 1, 1998. In accordance with accepted practice, the dates on the copies of the notebook pages have been masked (M.P.E.P. § 715.07).

b) Exhibit B is a copy of an electronic printout of the complete coding and noncoding nucleic acid sequences, matched to the amino acid sequence of NCE1 from Proscript's sequence database. The upper nucleic acid strand on this printout is SEQ ID NO:3 of the application and the amino acid sequence on the printout is SEQ ID NO:4 of the application. These sequences were used for Figure 2 of the application. The printout bears an automatically stamped date of printing and the title, "ubc12." The original printout bears a date prior to August 1, 1998. In accordance with accepted practice, the date on the copy of the electronic printout have been masked (M.P.E.P. § 715.07).

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

Gladyshea
Tatiana Gladysheva

Date

02, 11. 2006

Exhibit A to Accompany Declaration under 37 CFR 1.131 and Amendment and Response to May 3, 2006 Office Action in USSN 10/681,690

NOTEBOOK NO.	2 NIH
ISSUED TO Tatione	bladyshlow
ON	19
DEPARTMENT Brock	securistry_
RETURNED	19

—SCIENTIFIC NOTEBOOK CO.—
2831 LAWRENCE AVE.
P.O. BOX 238
STEVENSVILLE, MI 49127
616-429-8285

PCR the UBCH12 (08th humas count Le Run the eycles (30) ~ 2.5h (1234 - progresses. 55°C 30° / 30 times - 9°C forcoer. 2 nd rem UBCHR (ECORS / WOLET) FP: VUBCHIZ (Marly) trebes template AMAN 101-10h buffer dMP primers ågel 154 pe T: 1-2 20el Lyel Lyel 1: 3-4 Tubes I and I were devilled into 1 and 2; and 3 and 34: 9 gul in lack take Polymerese Ien were addled in each of 4 tables to start the recetions; 100 pl is the total voleran Reu 30 cycles, the same program (12,34)

RP1: long tggct ceagt cetctctgaggatgtgaggcagac a the ece tegagg te aa to Higgs to gatagace atg tete acac the ace though a fire atge agg tagace tog cee a ce thouar etgaacacaa ethece acte that agang ece to ato agg a carga toce a ca g H g agg t ga gang to gtot ge a tot gang a ago + g at at caca eg t et gang ca ge H cag ctog to a tet ce agacagatga coazott; mgt

RP1 SN gaacat facaeeteta q tt 2 agt gagte te gag H gag et ee aa gaag ag ate afge agg ce affaa H at ag ag H at c gt aa ga c ag a c g t ge eete gaga t c te t ga ga at g H ga ga c ag a c g H g eeete gaga t c ace t g A gagg t t a t ag a ce a ff at c te a eete t c a c et g ag a ga a t e e ge g g t aa ce e t g eee a c e t d headet g a e

Hatgteettetggateegeagetgegeegeegeegeegee

cettetggat ep2 sh

evacascia aggacagataaccagatataagaagtattaagaagatattaatat

gentlyg + anct g teagaceang Hactegtatata effaga H ga H an He teat g H ga e age Hateare ga tange te a He aga care ge te agagta gg + gg tag ce got g tag cen coce ge at gg

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+1 M I K L F S L K Q Q K K E E E S A 1 ATGATCAAGC TGTTCTCGCT GAAGCAGCAG AAGAAGGAGG AGGAGTCGGC TACTAGTTCG ACAAGAGCGA CTTCGTCGTC TTCTTCCTCC TCCTCAGCCG	Exhibit B to Accompany Declaration under 37 CFR 1.131 and Amendment and Response to May 3, 2006 Office Action in USSN 10/681,690
+1 G G T K G S S K K A S A A Q L R 51 GGGCGGCACC AAGGGCAGCA GCAAGAAGGC GTCGGCGGC CAGCTGCGGA CCCGCCGTGG TTCCCGTCGT CGTTCTTCCG CAGCCGCCGC GTCGACGCCT	
+1 I Q K D I N E L N L P K T C D I S 101 TCCAGAAGGA CATAAACGAG CTGAACCTGC CCAAGACGTG TGATATCAGC AGGTCTTCCT GTATTTGCTC GACTTGGACG GGTTCTGCAC ACTATAGTCG	
+1 F S D P D D L L N F K L V I C P D 151 TTCTCAGATC CAGACGACCT CCTCAACTTC AAGCTGGTCA TCTGTCCTGA AAGAGTCTAG GTCTGCTGGA GGAGTTGAAG TTCGACCAGT AGACAGGACT	
+1 E G F Y K S G K F V F S F K V G 201 TGAGGGCTTC TACAAGAGTG GGAAGTTTGT GTTCAGTTTT AAGGTGGGCC ACTCCCGAAG ATGTTCTCAC CCTTCAAACA CAAGTCAAAA TTCCACCCGG	
+1 Q G Y P H D P P K V K C E T M V Y 251 AGGGTTACCC GCATGATCCC CCCAAGGTGA AGTGTGAGAC AATGGTCTAT TCCCAATGGG CGTACTAGGG GGGTTCCACT TCACACTCTG TTACCAGATA	
+1 H P N I D L E G N V C L N I L R E 301 CACCCCAACA TTGACCTCGA GGGCAACGTC TGCCTCAACA TCCTCAGAGA GTGGGGTTGT AACTGGAGCT CCCGTTGCAG ACGGAGTTGT AGGAGTCTCT	
+1 D W K P V L T I N S I I Y G L Q 351 GGACTGGAAG CCAGTCCTTA CGATAAACTC CATAATTTAT GGCCTGCAGT CCTGACCTTC GGTCAGGAAT GCTATTTGAG GTATTAAATA CCGGACGTCA	
+1 Y L F L E P N P E D P L N K E A A 401 ATCTCTTCTT GGAGCCCAAC CCCGAGGACC CACTGAACAA GGAGGCCGCA TAGAGAAGAA CCTCGGGTTG GGGCTCCTGG GTGACTTGTT CCTCCGGCGT	
+1 E V L Q N N R R L F E Q N V Q R S 451 GAGGTCCTGC AGAACAACCG GCGGCTGTTT GAGCAGAACG TGCAGCGCTC CTCCAGGACG TCTTGTTGGC CGCCGACAAA CTCGTCTTGC ACGTCGCGAG	· · · · · · · · · · · · · · · · · · ·
+1 M R G G Y I G S T Y F E R C L K 501 CATGCGGGGT GGCTACATCG GCTCCACCTA CTTTGAGCGC TGCCTGAAAT GTACGCCCCA CCGATGTAGC CGAGGTGGAT GAAACTCGCG ACGGACTTTA	
+1 * 551 AG TC	